Copyright

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5.1.6 Compugen Ltd.

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Database
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Maximum Match 100%
Listing first 45 summaries
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                                                                                                                                                                                                                                 seq length: 0
seq length: 2000000000
                                                                                                                    A_Geneseq_16Dec04:*
1: geneseqp1980~.*
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213
                                                                                                                                                                                                                                                                                                                     2105692 seqs, 386760381 residues
                                                                                                                                                                                                                                                                                                                                                     Gapop 10.0 ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      February 24,
                                                                                                                                                                                                                                                                                                                                                                                                     KQIINMWQEVGKAMYATRPNYNKRKRIHIGPGRAFYTTK
geneseqp1980s:*
geneseqp190s:*
geneseqp2000s:*
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geneseqp2002s:*
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215.481 Million cell updates/sec
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score g Pred. No. No. is the number of results predicted by chance to have a greater than or equal to the score of the result being printed, s derived by analysis of the total score distribution.

SUMMARIES

25	24	2:	2:	2)	20	1.5	1.	17	16	1:	14		1:	Ľ	1		~		o.	6		_		 	Regult No.
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2 AAR77700	PAAY39694	AAW99944	PAAW67336	PAW25820	AAR68650	AB001838	2 AAW16530	P. AAR40203		ABO01836	AAE26075	AAB49386	AAY87621	PARE25518	AAY04025	AAW16528		AAR40196			AAE26076-3	AAU12546	NAB49387	AAW32957) E
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Aar77700	Aay39694	Aaw99944	Aaw67336	Aaw25820	Aar68650	Abo01838	Aaw16530	Aar40203	Abo01883	Abo01836	Aae26075	Aab49386	Aay87621	Aae25518	Aay04025	Aaw16528	Aar56981	Aar40196	Aar40201	.Aau70257	Aae26076	Aau12546	Aab49387	Naw32957	Description
T1/V3 (MN	HIV1 chim	HIV-1 vac	HIV-1 pep	Chimaeric	T1 T-cell			Sequence	HIV MN F	HIV MN en	Human imm	HIV pepti	HIV gp120	Hum	HIV pepti	Peptide (Peptide T		Sequence	HIV polyv	Hum	٧IH	VIΗ		ion

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
170	170	170	173	174.5	174.5	174.5	174.5	174.5	175	176	176	176	178	179	180	182	184	184	187
	79.8		81.2	81.9	81.9					82.6					84.5		86.4	•	•
39	39	39	39	47	47	47	35	35	39	39	39	39	39	39	39	39	39	39	39
œ	σ	N	N	7	N	N	7	N	N	σ	4.	Ŋ	N	N	N	N	Ŋ	N	^
ADR58051	ABP59725	AAW32959	AAW32958	ABO01837	AAW16529	AAR40202	ABC01835	AAW16527	AAW32961	AAU70260	AAU12549	AAW32966	AAW32965	AAW32972	AAW32973	AAW32963	AAW32962	AAW32960	AAW32964
Adr58051	Abp59725	Aaw32959	Aaw32958	Abo01837	Aaw16529	Aar40202	Abo01835	Aaw16527	Aaw32961	Aau70260	Aau12549	Aaw32966	Aaw32965	Aaw32972	Aaw32973	Aaw32963	Aaw32962	Aaw32960	Aaw32964
Novel ant	HIV immur	C3-V3 SC	C3-V3 BRV	HIV MN en	Peptide	Sequence	HIV MN en	Peptide	C3-V3 AL		HIV polyv	C3-V3	C3-V3 OYI	C3-V3 HAD	C3-V3 ADA	C3-V3 JRC	C3-V3 BAI	С3-V3 ЛНЗ	

ALIGNMENTS

AAW32957 standard; peptide; 39 ₹

AAW32957;

23-JAN-1998 (first entry)

C3-V3 MN immunogen construct.

Human immunodeficiency virus Immunogen; antigenic determinant; HIV; envelope; glycoprotein; env; gp; recognition; B lymphocyte; type specific; antibody; vaccine; protection; immune response; infection; neutralisation.

мф973)4436-A1. IJ الم.

24-APR-1997 Patent No. 5/993/819

18-OCT-1996; 96WO-US016911.

20-OCT-1995; 09-FEB-1996; 95US-00546515. 96US-00599266.

(UYDU-) UNIV DUKE.

Haynes BF, Palker TJ;

WPI; 1997-244862/22.

Synthetic human immunodeficiency virus vaccine - comprising hydrophilic peptide corresponding to at least 1 antigenic determinant of envelope glyco:protein recognised by B lymphocytes.

Example 11; Page 60j; 104pp; English.

RESULT 1
AAW32957
ID AAW3
AC AAW3
XX AW3
AC AAW3
XX IMMU
XX IM The present sequence, which comprises at least 1 antigenic determinant of human immunodeficiency virus (HIV) envelope (env) glycoprotein (gp) recognised by B lymphocytes, when covalently linked to a carrier molecule, induces the production of high titres of protective, type specific anti-HIV antibodies (Ab) in a mammal. The peptide can be used in vaccines for producing a protective immune response to HIV infection, while a HIV neutralising Ab can be induced in a primate by administering a composition comprising HIV env peptides that disrupt gp120/gp41 interactions used in ę,

OS

Sequence

39 AA;

Query Match Best Local S

Matches

l Similarity 39; Conserv

100.0%;

Length 39;

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RESULT 3
AAU12546
ID AAU1
XX
AC AAU1
XX
XX
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AAB49387
ID AAB4
ACC AAA4
ACC AAB4
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Best Local
                        AAU12546;
                                                           AAU12546 standard;
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                                                                                                                                                                                                                                                                                                                                                                               The present invention provides an antigenic composition comprising an antigen with a 3-0-deacylated monophosphoryl lipid A or monophosphoryl response. The presence of the adjuvant causes an increased immune or parasite, a cancer cell, an allergen or from amyloid peptide protein. The composition can be used in the prevention and treatment of infection, cancer and diseases caused by amyloid deposition. It is particularly useful against HIV, Neisseria gonorrhoeae and respiratory syncytial virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 20; Page 109; 129pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antigenic composition having an antigen (e.g. viral protein) and an adjuvant, useful for enhancing humoral and cellular immune response host or as a prophylaxis against virus, bacterium, parasite, cancer
                                                                                                                                                                                                                                                                                                               Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-024946/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            immunogenic peptide; immune response; monophosphoryl lipid gen; infection; cancer; amyloid deposition.
                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                           KÓI INMÓGEVGKAMYÁTŘÉNYNKRKRIHIGÉGRÁFYTTK 39
                                                                                                                                                                                                                                                            larity 100.0%; Score 213; DB 4; 100.0%; Pred. No. 4.2e-19; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000WO-US013156
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                                                     peptide; 39 AA.
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Pred. No. 4.2e-19;
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RESULT 4
AAE26076
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                                                                                                                                                                                                                                                                                                                                                                                              CC The present invention relates to human immunodeficiency virus (HIV) and CC vaccine comprises a mixture or linear array of peptides, or its variants, CC where the peptides contain immunodominant T-helper (Th) epitopes and the linear array of peptides (CTL) epitopes and the linear array of peptides or its variants, CC epitopes and the linear array of peptides are preferably expressed in CC modified vaccinia ankara. The vaccine is useful for immunising a patient CC TL epitopes of HIV. DNA or live vectors with linear arrays of CTL epitopes can be used as either primes or boosts of peptides or of each CC epitopes are used as either primes or boosts of peptides or of each CC cother to optimally give CTL anti-HIV responses. The vaccine induces CC acid sequences of the Th-CTL epitopes and HIV immune responses in the vaccine induces CC acid sequences of the Th-CTL epitopes and HIV immunogenic peptides used in the invention. (Updated on 11-SEP-2003 to standardise OS field)
                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Antigenic composition; cancer; aminoalkyl glucosamine phosphate compound; AGP; immune response; cytotoxic T lymphocyte; allergic response; tumour; amyloid deposition; vaccine; antifungal; antibacterial; antiparasitic; cytostatic; immunostimulant; virucide; HIV-1 peptide.
                                                                                                                           29-AUG-2003
14-NOV-2002
                                                                           Human immunodeficiency virus type 1 (HIV-1) peptide,
                                                                                                                                                                      AAE26076;
                                                                                                                                                                                        AAE26076 standard; peptide; 39
                                                                                                                                                                                                                                                                                                                                                                                      Sequence 39 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 28; 33pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Vaccine for immunizing against human immunodeficiency virus has mixture or linear array of peptides comprising immunodominant T-helper epitopes and major histocompatibility complex cytotoxic T-lymphocyte epitopes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-488827/53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-FEB-2000; 2000US-00497497,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human immunodeficiency virus; HIV; immunogen; vaccine; anti-HIV; human leukocyte antigen; HLA; T-helper epitope; CTL; Th; epitope; major histocompatibility complex; MHC; cytotoxic T-lymphocyte;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HIV polyvalent C4-V3 peptide C4-V3MN.
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27-SEP-2001
                                                                                                                                                                                                                                                                           39;
                                                                                                                                                                                                                                                        (revised)
(first entry)
                                                                                                                                                                                                                                                                                                              llarity 100.0%; Score 213; DB 4; Conservative 0; Mismatches 0;
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           therapeutic or prophylactic anti-cancer effect; a selected allergen to moderate an allergic response; or a selected antigen from a molecule or its portion representing those produced by a host in an undesired manner, amount or location so as to reduce an undesired effect, in a vertebrate host. The invention is useful for increasing the ability of an antigenic composition to prevent or treat disease characterised by amyloid deposition in a vertebrate host. The invention is useful as a vaccine. The present sequence is HIV-1 peptide, TISP10MN (A) (-Cys). (Updated on 29-AUG-2003 to standardise OS field)
                                                                   acquired immunodeficiency syndrome; simian immunodeficiency virus; vaccine; cytotoxic T cell response inducer; Th; human leucocyte an immunodominant T-helper epitope; cytotoxic T lymphocyte; CTL; HLA.
                                     Human immunodeficiency virus 1
                                                                                                                            HIV; human immunodeficiency virus; AIDS; SIV; anti-HIV; virucide;
                                                                                                                                                            HIV polyvalent C4-V3 peptides protoptype vaccine C4-V3MN.
                                                                                                                                                                                                   14-FEB-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-NOV-2000;
18-OCT-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                aminoalkyl glucosamine phosphate compound, and cytokine or lymphokine
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                                                                                                                                                                                                                                                                                                                                                                                                   μ
                                                                                                                                                                                                                                                                                                                                                                                                                                       39;
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                                                                                                                                                                                                                                                                                                                                                                                  KQIINMWQEVGKAMYATRPNYNKRKRIHIGPGRAFYTTK 39
                                                                                                                                                                                                                                                                         standard;
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2001US-0330345P.
                                                                                                                                                                                                                                                                     peptide;
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                        antigen;
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Synthetic

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RESULT 6
AAR40201
ID AAR8
XX AAR8
AC AAR8
XX AAR8
DT 25-1
DT 05-1
XX Byni
XX Byni
XX Syn
XX Syn
XX Syn
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XX 1
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Best Local Similarity
Matches 39; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a vaccine comprising a mixture, or linear array, of specific peptides that are human immunodeficiency virus (HIV-1) Th (immunodominant T-helper epitope)-cytotoxic T lymphocyte (CTL), or their variants. Peptides are also described which contain SIV (simian immunodeficiency virus) derived epitopes. The vaccine is used to protect against infection by HIV. The vaccines are based on an analysis of HIA (human leucocyte antigen) alleles present in subject populations targeted for vaccination and the commonest variants of HIV in the locality. They contain sufficient immunogenic epitopes to ensure effective presentation by almost all members of the target population. The present sequence is an HIV-1 epitope based prototype vaccine of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                          WPI; 1993-272554/34
                                                                                                                                                                                           10-FEB-1992;
                                                                                                                                                                                                                                                  10-FEB-1993;
                                                                                                                                                                                                                                                                                                      19-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hybrid protein; synthetic protein; immunogenic peptide; tolerance;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence of peptide construct T1-SP10MN(A).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-MAR-2003
05-FEB-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAR40201;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAR40201 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vaccine containing overlapping Th-cytotoxic T lymphocyte epitopes, useful for protecting against human immune deficiency virus.
                                                                                Haynes BF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 8; 11pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-NOV-2001
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                                                                                                                                       (HAYN/)
                                                                                                                                                                                                                                                                                                                                                             WO9315750-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for protecting against human immune deficiency
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Haynes BF, Liao H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HAYN/) HAYNES (LIAO/) LIAO H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-FEB-2000; 2000US-00497497
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                                                                                                                                    HAYNES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KQIINMWQEVGKAMYATRPNYNKRKRIHIGPGRAFYTTK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KQIINMWQEVGKAMYATRPNYNKRKRIHIGPGRAFYTTK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           toleragen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ΑA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (revised)
(first en
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                                                                                                                                                                                                                                                     93WO-US001207.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%;
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Pred. No. 4.2e-19;
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Example; Fig 10; 65pp; English.

Inducing immune tolerance to immunogenic peptide(s) or proteins - by administering the peptide(s) or proteins coupled to a 2-20 aminoacid

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The peptide composition and sequence (Epitope type) of the synthetic peptide construct is T1(Th) SP10(B cell) and A (B cell). T1 sequence is As 428-443 from HYVIIB. SP10MN(A) sequence is As 301-319 from HIVMN.

(A) sequence is As 32-324 from HIVMN and As 322-327 from HIVIN.

Thelper cell determinant. B cell = B cell neutralising antibody coriginal synthetic peptide (SP10) sequence to add an additional HIV SP120 V3 loop sequences added to the peptide. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 7
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                                                                                                                                          Inducing immune tolerance to immunogenic peptide(s) or proteins - by administering the peptide(s) or proteins coupled to a 2-20 aminoacid
                                                                                                                                                                                                              WPI; 1993-272554/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 39
                                                                                                                                                                                                                                                                                   10-FEB-1992;
                                                                                                                                                                                                                                                          (HAYN/) HAYNES B F.
                                                                                                                                                                                                                                                                                                         10~FEB-1993;
                                                                                                                                                                                                                                                                                                                                  19-AUG-1993
                                                                                                                                                                                                                                                                                                                                                       WO9315750-A1.
                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                 Hybrid protein; synthetic protein; immunogenic peptide; tolerance;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-MAR-2003
05-FEB-1994
                                                                                                                                                                                                                                                                                                                                                                                                                Sequence of peptide construct T1-SP10MN(A), type Th-B, derived from MN and HIVIIB Env gp120.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAR40196 standard; peptide; 40 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAR40196;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The peptide is a variant of T1-SP10 peptide derived from HIVAN envelope sequences. It comprises the following regions from the envelope sequences: T1, SP10 and A. T1 sequence is AAs 428-443 from HIVIIB. SP10MN (A) sequence is AAs 301-319 from HIVAN. (A) sequence is AAs 301-319 from HIVAN. (A) sequence is AAs 32-327 from HIVIB. A = additional HIV gp120 v3 loop sequences added to the original synthetic peptide (SP10) sequence to add an additional neutralising and CTL region to the HIV B cell determinant of the hybrid peptide. (Updated on 25-MAR-2003 to correct PN field.)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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(first en
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  entry)
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97.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 202.5; DB 2;
Pred. No. 8.6e-18;
0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         40;
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RESULT

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Best Local S
Matches 39
                                                                                     Synthetic T1-SP10 peptides are synthetic HIV peptides. They combine neutralising B-cell sites from the third variable region (V3) of the HIV envelope peptide sp120, with the gp120 T-helper epitope T-1. Several T1-SP10 peptides have been demonstrated to elicit high-titred neutralising terminal fragment thereof, either via the endogenous alpha2-M, or a C-sulfnydryl reactive crosslinker, such as the homo-bifunctional crosslinker, such as the homo-bifunctional such as the homo-bifunctional crosslinker bis-molemidohexane to methamine (ma)-treated alpha2-M. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAR56981
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                                                                                                                                                                                                              Disclosure; Page 40; 110pp; English.
                                                                                                                                                                                                                    Modifying immune responses to an antigen - by administering alpha-2-macro-globulin or a fragment capable of binding its receptor with the antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SS
                                                                                                                                                                                                                                                                      WPI; 1994-234708/28.
                                                                                                                                                                                                                                                                                             Pizzo SV,
                                                                                                                                                                                                                                                                                                                                    18-DEC-1992;
                                                                                                                                                                                                                                                                                                               (UYDU-) UNIV DUKE
                                                                                                                                                                                                                                                                                                                                                      20-DEC-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                            V3; variable region; HIV; envelope peptide; gp120; T-helper; epitope;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-2003
05-MAR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Peptide T1-SP10MN(A).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAR56981;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAR56981 standard; peptide; 40
            Sequence 40
                                                Similarity 97.5
39; Conservative
KQIINMWQEVGKAMYACTRPNYNKRKRIHIGPGRAFYTTK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 KQIINMMQEVGKAMYA-TRPNYNKRKRIHIGPGRAFYTTK
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                                                                                                                                                                                                                                                                                          Chu CT,
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39; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KQIINMWQEVGKAMYACTRPNYNKRKRIHIGPGRAFYTTK
                                                                                                                                                                                                                                                                                                                              92US-00992899
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(first en
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                                                      95.1%;
97.5%;
                                                                                                                                                                                                                                                                                                                                                                                                    /note= "printed in bold font"
                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                         Vrno
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97.5%;
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                                      Score 202.5; DB 2;
Pred. No. 8.6e-18;
0; Mismatches 0;
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Pred. No. 8.6e-18;
0; Mismatches 0;
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                                    Indels
                                                       Length 40;
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AAW16528
ID AAW1
XX AAW1
AC AAW1
DT 14-J,
XX Pept
XX Pept
XX Pept
XX W Immu
XX Huma
XX PN W097
XX 99-E
PN 09-E
XX OUTI
XX PT Syni
PT S
ARSULT 10
AAY04025
ID AAY04025
AC AAY04
XX 20-DE
CT 20-DE
XX MACCK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                An essentially pure hydrophilic peptide, i.e. the present peptide, comprising at least I antigenic determinant of human immunodeficiency virus (HIV) envelope (env) glycoprotein (gp) recognised by B lymphocytes, when covalently linked to a carrier molecule induces the production of high titres of protective, type specific anti-HIV antibodies (Ab) in a mammal. The peptide can be used in vaccines for producing a protective immune response to HIV infection, while a HIV neutralising Ab can be induced in a primate by administering a composition comprising HIV env peptides that disrupt gp120/gp41 interactions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic human immunodeficiency virus vaccine - comprising hydrophilic peptide corresponding to at least 1 antigenic determinant of envelope glyco:protein recognised by B lymphocytes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hydrophilic; antigenic determinant; HIV; envelope; glycoprotein; env; gp recognition; B lymphocyte; type specific; antibody; vaccine; protection; immune response; infection; neutralisation.
                                                     Human immunodeficiency virus
                                                                                                                                           Macroglobulin; HIV;
                                                                                                                                                                                                HIV peptide T1-SP10MN(A) for use in immunogenic complex.
                                                                                                                                                                                                                                                            20-DEC-1999
                                                                                                                                                                                                                                                                                                                    AAY04025;
                                                                                                                                                                                                                                                                                                                                                                         AAY04025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1997-244862/22.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-OCT-1995;
09-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human immunodeficiency virus
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                                                                                                                hepatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-OCT-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-JAN-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   39;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                40 AA;
                                                                                                                                                                                                                                                                                                                                                                         standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KQIINMWQEVGKAMYA-TRPNYNKRKRIHIGPGRAFYTTK 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KQIINMWQEVGKAMYACTRPNYNKRKRIHIGPGRAFYTTK 40
                                                                                                             antigen; vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Palker TJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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                                                                                                                                                                                                                                                                                                                                                                      peptide; 40
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                                                                                                                                           immunogenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             95.1%;
97.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                           complex;
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ARESULT 11
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AC AREZ5
XX AREZ5
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XX Stabl
KW Stabl
KW Stabl
KW Stob
DE Human
XX Stabl
KW CYCOS
OS Human
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                           Stable complex; alpha-2-macroglobulin; immunocompetence; vaccine; immune response; macrophage; tumour; human immunodeficiency virus; HIV; cytostatic; antimicrobial; alpha2M; anti-HIV; virucide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in which the biomolecule is covalently bound to an amino acid residue of a cleaved thiol ester of the alpha-2M, the amino acid residue being a glutamyl residue and/or a cysteinyl residue. Preparation of the complex comprises activation of alpha-2M with a nucleophilic compound followed by incubation with the biomolecule at elevated temperature. Covalent incorporation of the intact biomolecule is thus effected without use of a protease. The obtained complex may be used as an antigen for stimulating immune response, e.g. in the form of a vaccine. Enhanced presentation of the biomolecule is provided, especially for those antigens which are poorly immunogenic. Reduction of immunodominance of particular epitopes is also provided. Preferably the biomolecule is an HIV antigen or a hepatitic virus antigen, or a peptide, fragment, hybrid or chimeric peptide thereof. The present sequence is a preferred example of an HIV peptide which may be used in the complex
                                                                                                                                                                                                                                                                                                                                     Human immunodeficiency virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 40 AA;
                                                                                         01-APR-1998;
                                                                                                                                                  31-MAR-1999;
                                                                                                                                                                                                                  11-JUN-2002
                                                                                                                                                                                                                                                                           US6403092-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human immunodeficiency virus (HIV) T1-SP10MN(A) peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAE25518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A stable complex comprising at least one intact biomolecule and activated alpha-2-macroglobulin (alpha-2M) having an intact bait region is claimed,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1999-601324/51.
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31-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      alpha-2-macroglobulin
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                               (UYDU-) UNIV DUKE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Immune response modulator alpha-2 macroglobulin complex useful in treatment of HIV or hepatitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (UYDU-) UNIV DUKE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard; peptide; 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KQIINMWQEVGKAMYA-TRPNYNKRKRIHIGPGRAFYTTK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KOIINMWQEVGKAMYACTRPNYNKRKRIHIGPGRAFYTTK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gron H;
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                                                                                            98US-00053301
                                                                                                                                                     99US-00282826.
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99US-00282826.
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97.5%;
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le is covalently bound to an amin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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Pred. No. 8.6e-18;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   40
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AAY87621
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a stable complex comprising an intact CC biomolecule with a nucleophilic group which is covalently bound to CC activated alpha-z-macroglobulin (alphazm) which is covalently bound to CC stable complex is useful for enhancing host immunocompetence and for CC useful for increasing immune response to a poorly immunogenic antigen. The CC and for suppressing immune response to a poorly immunogenic antigen. CC in view of the existence on the macrophage are recognised by the macrophage of derived from tumour, abnormal cells or infection, where the isolated protein is then administered as an antigen and preserving cancer or infection, where the isolated protein is compared as an antigen and prepared in alphazm complex which compared as an antigen and prepared in alphazm and this cc immune response against human immunodeficiency virus (HIV) antigens, and cc peptide used in the exemplification of the invention T1-Sp10MN(A)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example III; Page 23; 44pp; English.
                                 New immunogenic liposome composition for inducing an immunogenic response comprises vesicle forming lipids and an antigenic construct.
                                                                                                                                         WPI; 2000-283420/24.
                                                                                                                                                                                    Fujii G,
                                                                                                                                                                                                      (MOLE-) MOLECULAR EXPRESS INC.
                                                                                                                                                                                                                                                    22-SEP-1998;
21-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                     22-SEP-1999;
                                                                                                                                                                                                                                                                                                                                          30-MAR-2000
                                                                                                                                                                                                                                                                                                                                                                       WO200016746-A2.
                                                                                                                                                                                                                                                                                                                                                                                              Human immunodeficiency virus.
                                                                                                                                                                                                                                                                                                                                                                                                  Immunogenic liposome; antigen; cytostatic; hydrophobic domain; epitope; vesicle forming lipid; immunization; vaccine; antimicrobial; gp120.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HIV gp120 HD epitope.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAY87621;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAY87621 standard; protein; 40 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 3; Col 35; 34pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immune response modulator alpha-2 macroglobulin complex useful in the treatment of HIV or hepatitis.
                                                                                                                                                                          Cramer DV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KQİLNMWQEVGKAMYACTRENYNKEKRİHİGEGRAFYTTK 40
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99US-0400723P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                                                                                                                                                                                                         99WO-US020880.
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97.5%;
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Pred. No. 8.6e-18;
0; Mismatches 0;
                                                                                                                                                     Adler-Moore J,
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                                                                                                                                                   Perry LJ;
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RESULT 13
AAB49386
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The present invention provides an antigenic composition comprising an antigen with a 3-O-deacylated monophosphoryl lipid A or monophosphoryl lipid A or monophosphoryl response. The antigen may be from a pathogenic bacterium, fungus, virus or parasite, a cancer cell, an allergen or from amyloid peptide protein. The composition can be used in the prevention and treatment of infection, useful against HIV, Neisseria gonorrhoeae and respiratory syncytial virus useful against HIV, Neisseria gonorrhoeae and respiratory syncytial virus
                                                                                                                                                                                                                                                            Antigenic composition having an antigen (e.g. viral protein) and an adjuvant, useful for enhancing humoral and cellular immune response host or as a prophylaxis against virus, bacterium, parasite, cancer
                                                                                                                                                                                                                      Claim 20; Page 109; 129pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention describes a novel immunogenic liposome composition (C1) CC comprising vesicle forming lipids and an antigenic construct comprising CC one or more antigenic determinants and a hydrophobic domain (HD) CC associated with the membrane of the liposome composition. C1 is used to CC mammals such as humans, against a variety of microbial agents and can be career. C1 provides effective and safe immunization. The epitopes can be called using standard protein for maximal flaxibility in vaccine design. CC purified using standard protein is water soluble and can be easily crepresents an HIV hydrophobic domain epitope which is used to illustrate xx the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-024946/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Hagen M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                (AMCY ) AMERICAN CYANAMID CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-MAY~1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-MAY-2000; 2000WO-US013156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200069456-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HIV; immunogenic peptide; immune response; monophosphoryl lipid antigen; infection; cancer; amyloid deposition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human immunodeficiency virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HIV peptide SEQ ID NO: 1.
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39; Conservative
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97.5%;
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Pred. No. 8.6e-18;
0; Mismatches 0
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DB 4;

Length

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ARESULT 14
AREZ6075
ID AREZ6
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                                                                                                                                                                    The invention relates to an antigenic composition comprising a selected CC antigen from a pathogenic virus, bacterium, fungus or parasite, or from a CC cancer or tumour cell, or from an allergen, or from a self molecule; and CC an combination of adjuvant comprising an aminoalkyl glucosamine phosphate CC lymphokine, or an adjuvant comprising an aminoalkyl glucosamine phosphate CC lymphokine, or an antigenic composition is useful for increasing CC the ability of an antigenic composition (enhancing immune response) CC containing a selected antigen from a pathogenic virus, bacterium, fungus CC parasite to elicit an immune response especially cytotoxic TC composition or prophylactic antigen a cancer or tumour cell to elicit therapeutic or prophylactic anti-cancer effect; a selected allergen to moderate an allergic response; or a selected antigen from a molecule or its portion representing those produced by a host in an undesired manner, CC amount or location so as to reduce an undesired effect, in a vertebrate host. The invention is useful for increasing the ability of an antigenic CC composition in a vertebrate host. The invention is useful as a vaccine. The present sequence is HIV-1 peptide, TISP10MN (A) (+Cys). (Updated on CC 29-AUG-2003 to standardise OS field)
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      Conservative
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                                                                                                       The invention relates to inducing immune tolerance in a mammal to an immunogenic peptide or protein, involving administering to the mammal a synthetic immune system toleragen comprising 2-20 amino acid hydrophobic peptide (especially the HIV envelope gp41 fusion protein (F) peptide appearing as ABO01846) linked to the N-terminus or C-terminus of the immunogenic peptide or protein, under conditions such that the immune tolerance is induced. The method is useful for inducing immune tolerance in a mammal to an immunogenic peptide or protein, such as an acetylcholine receptor protein, an insulin protein, a thyroid stimulating hormone (TSH) receptor protein, myelin basic protein, an autoimmune T cell antigen, and a retinal S protein, or their fragments and thus may be used to treat autoimmune diseases such as myasthenia gravis, dilabetes mellitus, autoimmune thyroid disease (e.g Grave's disease), experimental autoimmune encephalomyelitis, multiple solerosis until associator mellitus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-OCT-1990;
10-FEB-1992;
10-FEB-1993;
02-JUN-1995;
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syndrome, idiopathic retinouveitis, HTLV-1 associated myelopathy, tropical spastic parapesis and acquired immunodeficiency syndrome The mammal is a primate, preferably human. The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Inducing immune tolerance in a mammal to an immunogenic peptide protein, by administering to the mammal a synthetic immune syste toleragen comprising a hydrophobic peptide linked to the peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human
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07-AUG-2003
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Search completed: February 24, 2005, 07:27:39 Job time : 71 secs	Ouery Match Best Local Similarity 97.5%; Pred. No. 8.6e-18; Matches 39; Conservative 0; Mismatches 0; Indels 1; Gaps 1; Oy 1 KOIINMWOEVGKAMYA-TRENYNKRKRIHIGEGRAFYTTK 39 LILILIA	CC represents a region of an HIV strain envelope glycoprotein suitable for CC testing as the hydrophobic peptide region of the toleragen. (Updated on XX Sequence 40 AA;

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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; ORGANISM: HIV
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Best Local S
Matches 39
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APPLICANT: Gron, Hanne
TITLE OF INVENTION: IMMUNE RESPONSE MODULATOR ALPHA-2 MACROGLOBULIN COMPLEX
TITLE OF INVENTION: IMMUNE RESPONSE MODULATOR ALPHA-2 MACROGLOBULIN COMPLEX
TILE REFERENCE: 2295-1-001CIP
CURRENT FILING DATE: 1990-03-31
CURRENT FILING DATE: 1999-03-31
EARLIER APPLICATION NUMBER: 09/053,301
EARLIER APPLICATION NUMBER: 09/053,301
EARLIER FILING DATE: 1998-04-01
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 40
LENGTH: 40
                                                                                                                                                         Sequence 2, Application PC/TUS9312479
GENERAL INFORMATION:
APPLICANT: Dixe University, (except for the U.S.)
APPLICANT: Pizzo, Salvatore V.
APPLICANT: Chu, Charleen T.
APPLICANT: Only, Timothy D.
TITLE OF INVENTION: IMMUNE RESPONSE MODULATOR COMPLEX,
TITLE OF INVENTION: USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1, Application Patent No. 6403092 GENERAL INFORMATION:
                                             NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Avenue
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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PAGES: 9448-9452
DATE: November-1991
RELEVANT RESIDUES IN SEQ ID NO:
PCT-US93-12479-2
                                      COUNTRY: Canada
ZIP: M5G 1R7
COMPUTER READABLE FORM:
                                                                       STREET: SurCITY: Toronto Ontario
                                                                                                                                        NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: internal
PUBLICATION INFORMATION:
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LENGTH: 40 amino acids
TYPE: amino acid
STRANDEDNESS: single
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TELEX: 133521
INFORMATION FOR SEQ ID NO:
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L INFORMATION:

SIA, Charles D.Y.
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 487-5800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 07/992,899
FILING DATE: 18-DEC-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (201) 343-1684
                                                                                                                                                                                                                                                                                                                        NAME: Jackson Esq., David A. REGISTRATION NUMBER: 26,742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/:
FILING DATE: 20-DEC-1993
                                                                                                                                                                                                                                             1, Application US/08257528B
                                                                                                                                                                       INVENTION:
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Suite 701, 330 Un
                                                                                                                                                                          SIA, Charles D.Y.
CHONG, Pele
KLEIN, Michel H.
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Weinhold, Kent J.
Scearce, Richard M.
Washburn, Eileen M.
Clark, Cynthia A.
Palker, Thomas J.
Haynes, Barton F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Priming of anti-human immunodeficiency virus
                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                          ADDRESS
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SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                   Tandem Synthetic HIV-1 Peptides
                                                                                                                                                                                                                                                                                                                                                                95.1%; Score 202.5;
97.5%; Pred. No. 1.6¢
ative 0; Mismatches
                                                                                                 University Avenue
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                                                                                                                                                                                                                                                                                                                                                                                      Length 40;
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PRIOR APPLICATION AZA

PRIOR APPLICATION NUMBER: 08/257,528

FILLING DATE: 09-JUN-1994

PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION UMBER: 08/073,378

FILING DATE: 09-JUN-1993

ATTORNEY/AGRET INFORMATION:
REGISTRATION NUMBER: 24,973

TELEPRONE: 416 NEWBER: 24,973

TELECOMUNICATION INFORMATION:
TELEPRONE: (416) $95-1155

TELEPRONE: (416) $95-1155
                                                                                                                                                                                                                                                                COUNTRY: Canada
ZIP: M5G 1R7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARD: BA-TON-T- PA-TON-TON
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21, Application US/08460602A
Patent No. 5759769
GENERAL INFORMATION:
APPLICANT: SIA, Charles D.Y.
APPLICANT: CHOKG, Pele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-257-528B-21
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Best Local S
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REFERENCE/DOCKET NUMBER: 1038
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1153
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                     APPLICATION NUMBER:
FILING DATE: 02-JUI
CLASSIFICATION: 42
                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Sim & STREET: Suite 7(CITY: Toronto STATE: Ontario
                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: KLEIN,
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: 40 amino acida STRANDENESS; p: 7050LOGY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
APPLICATION NUMBER: US/08/257,528B
FILING DATE: 09-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: STEWART, MICHAEL I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 KQIINMWQEVGKAMYA-TRPNYNKRKRIHIGPGRAPYTTK 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 Similarity
38; Conserva
                                                                                                                                                                                                                                                                                                                                                                      E: Sim & McBurney
Suite 701, 330 University Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KÓI INMÓBÝBKÁMÍ ÁCTRÞNÝNKRKRÍ HIGÞGRÁFÝTTK 40
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KLEIN, Michel H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                   02-JUN-1995
                                                                                                                                                                                                                                               Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                          Tandem Synthetic HIV-1 Peptides
                                                                                                                                                                                                                         US/08/460,602A
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RESULT 3 US-08-257-528B-21

Matches Query Match

39;

Sequence

tent No.

APPLICANT:

ADDRESSEE:

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Best Local :
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                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/073
PILING DATE: 09-JUN-1993
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY:

1 NO:

10 AMINO ACIDS

11 PE: AMINO ACID

STRANDEDNESS: A1

TOPOLOGY:

160-600
                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 40 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
OUR CONTROLL WINDER: 10/00/4/2006/2
                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION UMBER: 08/257,528
FILING DATE: 09-JUN-1994
                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION: TELEPHONE: (416) 595-1155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: SIA, Charles D.Y
APPLICANT: CHONG, Pele
APPLICANT: KLEIN, Michel H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           y Match 91.3%;
Local Similarity 95.0%;
                                                                                                                                                                                                                                                                                       NAME: STEWART, MICHAEL I.
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: FILING DATE: 05-JU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: Can
ZIP: M5G 1R7
                                                                                                                                              TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Toronto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            38; Conservative
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                                                                               Similarity
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                KQIINMWQEVGKAMYA-TRPNYNKRKRIHIGPGRAFYTTK 39
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KOIINMWQEVEKAMYACTRPNYNKRKRIHIGPGRAFYTTK 40
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                                                                                                                                                                                                                                         (416) 595-1163
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                                                            91.3%;
llarity 95.0%;
Conservative
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                                                                                                                                                                                                                                                                                          1038-487 MIS:jb
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                                                                           Score 194.5; DB 1
Pred. No. 2.4e-21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 194.5;
Pred. No. 2.4
                                                              Mismatches
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                                                                                            DB 1;
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                                                               Indels
                                                                                            Length 40;
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US-08-465-217A-21
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                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                         Matches :
                                                                                                                                                              Patent No.
                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (416) 595-11
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                     APPLICANT: SIA, Charles D.Y.
APPLICANT: CHONG, Pele
APPLICANT: KLEIN, Michel H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: STEWART, MICHAEL I.
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 08/07
FILING DATE: 09-JUN-1993
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 09-JUN-1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 05-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/257,528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,217A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sim & McBurney
STREET: Suite 701, 330 University Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: CHONG, PE
APPLICANT: KLEIN, MI
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                    NUMBER OF SEQUENCES:
                                                                      TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Toronto
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                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH:
                                                                                                                                                                                                                                                                                                                                         l Similarity
38; Conserv
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                                                                                                                                                              1, Application US/08464329A
5817754
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Suite 701, 330 University Avenue
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linear
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KLEIN, Michel H.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ) 595-1163
NO: 21:
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                                                                    Tandem Synthetic HIV-1 Peptides
                                                                                                                                                                                                                                                                                                                                        91.3%; Score 194.5; DB 1; Length 40; 95.0%; Pred. No. 2.4e-21; tive 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                      40
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CITY: TO STATE: (COUNTRY:

Ontario Canada

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STATE: Ontario
COUNTRY: Canada
ZIP: MSG 1R7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compactible
OPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/462,507A
CLASSIFICATION: 424
PRIOR ADDITE: 105-JUN-1995
PRIOR ADDITE: 105-JUN-1995
PRIOR ADDITE: 126
                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 21. Application US/08462507A
Patent No. 5876731
GENERAL INFORMATION:
APPLICANT: SIA, Charles D.Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-464-329A-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (416) 595-1155
TELEPAX: (416) 595-1163
INFORMATION FOR SEQ ID NO: 21
SEQUENCE CHARACTERISTICS:
LENGTH: 40 amino acids
TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                              APPLICANT: SIA, Charl, APPLICANT: CHONG, Pel APPLICANT: KLEIN, Mic TITLE OF INVENTION; TILLE OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                  ADDAL STREET: SULTIFY: Toronto Ontario
                                                      APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/464,32
CLASSIFICATION NUMBER: US/08/464,32
CLASSIFICATION 424
PRIOR APPLICATION DATA:
APPLICATION UMBER: 08/257,528
PRIOR APPLICATION DATA:
APPLICATION UMBER: 08/073,378
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION OBTA:
APPLICATION OBTA:
APPLICATION NUMBER: 08/073,378
CLASSIFICATION 424
PRIOR DATE: 09-UN-1993
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 24,973
TREFERENCE/DOCKET NUMBER: 1038-449
TELLEPONMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC comparible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PALEDAIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KQIINMWQEVGKAMYA-TRPNYNKRKRIHIGPGRAFYTTK 39
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38; Conservative
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Suite 701, 330 University Avenue
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KLEIN, Michel H.
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95.0%;
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INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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US-08-467-881A-21
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GENERAL INFORMATION:
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: SIA, Char
APPLICANT: CHONG, PE
APPLICANT: KLEIN, M.
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: SUCCESTREET: CITY: Toronto
CITY: Ontario
Canada
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OF SEQUENCES:
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US-08-462-507A-21

Matches Query Match

38;

Local

INFORMATION FOR SEQ ID NO: 21
SEQUENCE CHARACTERISTICS:
LENGTH: 40 amino acids
TYPE: amino acids
STRANDENNESS: single
TOPOLOGY: linear REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-451 MIS:jb
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155 FILING LALION: 424
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: STEWART, MICHAEL I
NAME: STEWART, AICHAEL 24 PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/073,378
FILING DATE: 09-JUN-1993 FILING DATE: 0: CLASSIFICATION: 1 KQIINMWQEVGKAMYA-TRPNYNKRKRIHIGPGRAFYTTK 39 h 91.3%; Score 194.5; DB 2; Similarity 95.0%; Pred. No. 2.4e-21; 38; Conservative 0; Mismatches 1; KÓI INMÓBYBKÁMYÁCTRÞNÝNKKKRÍHIGÞGRÁFÝTTK 40 09-JUN-1994 Indels Length 40; Gaps

ATTORNEY/ACENT INFORMATION:
NAME: STEWART, MICHAEL I.
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
TELEFAX: (416) 595-1163
INFORMATION FOR SEQ ID NO: 21: CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,881A
FILING DATE: 06-UUN-1995
CLASSIFICATION DATA:
APPLICATION UMBER: 08/257,528
FILING DATE: 09-UUN-1994 STATE: Onta...

STATE: Onta...

COUNTRY: Canada

ZIP: M5G 1R7

COMPUTER READABLE FORM:

MEDIUM TYPE: Ploppy disk

COMPUTER: IBM PC compatible

COMPUTER: PC-DOS/MS-DOS

COMPUTER: PC-DOS/MS-DOS

COMPUTER: PC-DOS/MS-DOS

COMPUTER: PC-DOS/MS-DOS

COMPUTER: PC-DOS/MS-DOS

COMPUTER: PC-DOS/MS-DOS CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 08/073,378
FILING DATE: 09-UNN-1993
CLASSIFICATION: 424 COMPUTER: IBM PC compactive OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, CORRESPONDENCE ADDRESS E: Sim & McBurney Suite 701, 330 University Avenue Application US/08467881A CHONG, Pele KLEIN, Michel H. Charles D.Y. Tandem Synthetic HIV-1 Peptides 1038-488 MIS:jb Version #1.25

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                                                                                                   US-08-460-602A-23
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Sequence 23, Application US/0846
Patent No. 5759769
GENERAL INFORMATION:
APPLICANT: SIA, Charles D.Y.
APPLICANT: CHONG, Pele
APPLICANT: KLEIN, Michel H.
                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                           Query Match
Best Local
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Best Local Similarity 95.0
Matches 38; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PACENTIN Release #1.0, Version #1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/257,528B
PILING DATE: 09-UN-1994
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: STEWART, MICHAEL I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No.
                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (416) 595-1163
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                              REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-336 MIS:jb
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: Canada
ZIP: M5G 1R7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: SIA, Charles D.Y
APPLICANT: CHONG, Pele
APPLICANT: KLEIN, Michel H.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 40 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: 111
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STATE: Ontario
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No. 5639854
                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                            KQIINMWQEVGKAMYATRPNYNKRKRIHIGPGRAFYTTK 39
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                                                                                     Application US/08460602A
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                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                   linear
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95.0%;
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Pred. No. 9.6e-17;
0; Mismatches 1
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Pred. No. 2.4e-21;
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                                                                                                                                                                                                                                                                                                                                     Sequence 23, Applicat Patent No. 5795955
GENERAL INFORMATION:
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Best Local Similarity 84.6
Matches 33; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PE-ENTIN Release #1.0, Version #1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,602A
FILING DATE: 02-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/257,528
FILING DATE: 09-JUN-1994
CLASSIFICATION: 424
CLASSIFICATION: 424
CLASSIFICATION: 424
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APPLICATION NUMBER: 08/07:
APPLICATION NUMBER: 09-JUN-1993
FILING DATE: 09-JUN-1993
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: STEWART, MICHAEL I.
REGISTRATION NUMBER: 24,9:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KEGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 10:
TELECOMMUNICATION INFORMATION:
TRIEDHOMP. /410 -----
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MEDIUM TYPE: Floppy of COMPUTER: IBM PC com
                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 1
                                                                                                                                                                                                                                                                               APPLICANT: CHONG, Pele
APPLICANT: KLEIN, Michel H.
                                                                                                                                                                                                                                                               TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                    APPLICANT: SIA, Charles D.Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS
                                                                                                                                                      STATE:
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                                                                                                                              COUNTRY:
                                                                                                                                                                     CITY: Toronto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS:
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o. 5795955
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                                                                                                               TRY: Canada
M5G 1R7
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                                                                                                                                                  Ontario
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ontario
                                                                                                                                                                                     E: Sim & McBurney
Suite 701, 330 University Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Suite 701, 330 University Avenue
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84.6%;
                                                                                                                                                                                                                                                                 Tandem Synthetic HIV-1 Peptides
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                   Release #1.0, Version #1.25
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Pred. No. 9.6e-17;
0; Mismatches 1
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
SOFTWARE: Patentin Release #1.0, Version #1.25
RPLICATION UNDRER: US/08/465,217A
FILING DATE: 05-JUN-1995
PRIOR APPLICATION NUMBER: 08/257,528
CLASSIFICATION NUMBER: 08/257,528
PRIOR APPLICATION UNMBER: 08/257,528
FILING DATE: 09-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 08/073,378
FILING DATE: 09-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 08/073,378
FILING DATE: 09-JUN-1993
CLASSIFICATION: 424
NAME: STEWART, MICHAEL I
REGISTRATION NUMBER: 24.973
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-465-217A-23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
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Best Local Similarity 84.6
Matches 33; Conservative
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INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: SIA, Charles D.Y.
APPLICANT: CHONG, Pele
APPLICANT: KLEIN, Michel H.
TITLE OF INVENTION: Tandem Synthetic HIV-1 Peptides
NUMBER OF SEQUENCES: 101
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION UNMERS: 08/073,37.
APPLICATION NUMBER: 08/073,37.
FILING DATE: 09-JUN-1993
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: STEWART, MICHAEL I.
REFIRENCE/DOCKET NUMBER: 1038
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
               REFERENCE/DOCKET
                                                                                                                                                                                                                                                                                                                                                                                             STATE: C
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FILING DATE: 05-JUN
CLASSIFICATION: 424
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5. 5800822
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3ER: 24,973
NUMBER: 1038-486 MIS:jb
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84.6%;
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Pred. No. 9.6e-17;
0; Mismatches 1
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US-08-464-329A-23
                    Best Local Similarity Matches 33; Conserv
                                              Query Match
                                                                                                                           INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acids
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FILING DATE: 05-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/257,528
FILING DATE: 09-JUN-1994
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SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acids
STRANDEDNESS: single
                                                                                                                                                                                NAME: STEWART, MICHAEL I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 10:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
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Best Local Similarity 84.5
33; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
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ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 424
PRIOR APPLICATION DATA:
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APPLICANT: SIA, Charles D.Y.
                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                           TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                  TELEPHONE: (410,
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ADDRESSEE: Sim & McBurney
STREET: Suite 701, 330 University Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: CHONG, PAPPLICANT: KLEIN, M
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CTIY: Toronto
Ontario
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TELEPHONE: (416) 595-1155
TELEFAX: (416) 595-1163
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Y: Canada
       76.3%; Score 162.5; DB 2 ilarity 84.6%; Pred. No. 9.6e-17; Conservative 0; Mismatches )
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CHONG, Pele
KLEIN, Michel H.
Tandem Synthetic HIV-1 Peptides
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STREET: Suite 701, 330 University Avenue
CITY: Toronto
STATE Ontario
COUNTRY: Canada
ZIP: M5G 1R7
COMPUTER READABLE FORM:
MEDIUM TYRE: Flappy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/462,507A
FILING DATE: 05-JUN-1995
CLASSIFICATION DATA:
APPLICATION NUMBER: 08/257,528
FILING DATE: 09-JUN-1994
CLASSIFICATION 1424
PRIOR APPLICATION 1424
PRIOR APPLICATION NUMBER: 08/073,378
FILING DATE: 09-JUN-1993
CLASSIFICATION 10ATA:
APPLICATION NUMBER: 108/073,378
FILING DATE: 09-JUN-1993
CLASSIFICATION 1424
PRIOR APPLICATION 10ATA:
APPLICATION NUMBER: 108/073,378
FILING DATE: 09-JUN-1993
CLASSIFICATION 10ATA:
APPLICATION NUMBER: 1038-451 MIS:jb
TELEPHONE: (416) 595-1155
FILEPAX: (416) 595-1155
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FILEPAX: (416) 595-1155
FILEPAX: (416) 595-1163
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 35 amino acids
TYPE: amino acids
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; Bequence 23, Application US/08462507A
PARENT NO. 5876731
Search completed: February 24, 2005, 07:31:52
Job time : 44 secs
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Best Local Similarity 84.6%;
Matches 33; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: SIA, Charles D.Y.
APPLICANT: CHONG, Pele
APPLICANT: KLEIN, Michel H.
TITLE OP INVENTION: Tandem Synthetic HIV-1 Peptides
NUMBER OF SEQUENCES: 101
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1 KQIINMWQEVEKAMYA----NKRKRIHIGPGRAFYTTK 34
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Pred. No. 9.6e-17;
0; Mismatches 1;
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Maximum Match 100%
Listing first 45 summaries
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 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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213
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112.831 Million cell updates/sec
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RESULT 2
ENV HVIMN STANDARD; PRT; 856 AA.

ID ENV HVIMN STANDARD; PRT; 856 AA.

AC P05877;
DT 01-NOV-1988 (Rel. 09, Created)
DT 01-NOV-1988 (Rel. 09, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Envelope polyprotein GP160 precursor [Contains: Exterior membrane]

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.

MEDLINE=88219542; PubMed=3369091;
Gurgo C., Guo H.-G., Franchini G., Aldovini A., Collalti E.,
Farrell K., Wong-Staal F., Gallo R.C., Reitz M.S. Jr.;
"Envelope sequences of two new United States HIV-1 isolates.";
Virology 164:531-536(1988).

-i- MISCELLANEOUS: The MN isolate was taken from a pediatric AIDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human immunodeficiency virus type 1 (MN isolate) (HIV-1).
Viruses; Retroid viruses; Retroviridae; Lentivirus.
NCBI TaxID=11696;
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                                                                                                                                  Q6BC02 PRELIMINARY; PRT; 857 AA.
Q6BC02;
25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
Envelope glycoprotein (Fragment).
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Stlegler G., Kunert R., Zolla-Pazner S., Katinger H.,
A Petropoulos C.J., Burton D.R.,
I "Comprehensive analysis of the cross-clade neutralizing act
panel of anti-HIV-1 monoclonal antibodies.";
Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
R EMBL, AY669737; AAT67509.1; -.
R GO; GO:0005193; F:structural molecule activity; IEA.
R GO; GO:0005193; F:structural molecule activity; IEA.
R InterPro; IPR000328; Env GP41.
R InterPro; IPR000377; GP120.
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   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                              922D362E10C60DA8 CRC64;
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Best Local S
Matches 23
                                               HSSP; P05877; INJO.

GO; GO:0016021; C:integral to membrane; IEA.
GO; GO:001902B; C:viral capeid; IEA.
GO; GO:001902B; C:viral envelope; IEA.
GO; GO:00519B; F:structural molecule activity; IE.
GO; GO:00519B; F:structural molecule activity; IE.
InterPro; IPR0002B; Env GP41.
InterPro; IPR00077; GP120.
Pfam; PF00517; GP41; 1.

Pfam; PF00517; GP41; 1.

AIDS; Coat protein; Envelope protein; Glycoprotein
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090294;
01-NOV-1998
01-NOV-1998
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HSSP; P05877; 1NJO.
GO; GO:0016021; C:integral t
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MEDLINE=98362112; PubMed=9696803;

Park E.J., Vujcic L.K., Anand R., Theodore T.S., Q

Park E.J., Vujcic L.K., Anand R., Theodore T.S., Q

"Mutations in both gp120 and gp41 are responsible

"Mutations in both gp120 and gp41 are responsible

meutralization resistance of variant human immunod

1 MN to antibodies directed at V3 and non-V3 epito

J., Virol. 72:7099-7107(1998).
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GO; GO:0019028; C:viral capsid; IEA.
GO; GO:0019031; C:viral envelope; IEA.
GO; GO:0005198; F:structural molecule activity;
InterPro; IPR000328; Env GP41.
InterPro; IPR000377; GP120.
Pfam; PF00516; GP120; 1.
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01-JUN-2003 (TrEMBLrel.
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Viruses; Retroid viruses; Retroviridae;
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Pfam; PF00517; GP41;
AIDS; Coat protein;
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       SEQUENCE
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                                                    protein; Glycoprotein; Polyprotein;
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Pred. No. 1.8e-09;
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       8136732E44445E56 CRC64;
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Best Local S
Matches 20
SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

MEDLINE=99180162; PubMed=10082125; DOI=10.1089/088922299311385;

Roth W.W., Womack C., Newman C., Essex M., Bond V.C.;

"Phylogenetic examination of HIV type 1 91ycoprotein 120-V3 sequences in patients from rural Georgia.";

AIDS Res. Hum. Retroviruses 15:399-403(1999).
                                                                                                                                                                                                                                                                                                            Name=any;
Name=any;
Human immunodeficiency virus 1,
Human immunodeficiency virus 1,
viruses; Retroid viruses; Retroviridae;
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01-MAY-1999
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01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Envelope glycoprotein (Fragment).
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EMBL; Z83288; CAB05865.1; ...

GO; GO:0016021; C:integral to membrane; IEA.

GO; GO:0019028; C:viral capsid; IEA.

GO; GO:0019031; C:viral envelope; IEA.

GO; GO:0005198; F:structural molecule activity; IEA.
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InterPro; IPR011056; Pept_S24_S26_C.
Pfam; PF00516; GP120; 1.
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PREMILTER
091191,
O91191,
O1-NOV-1998 (TrEMBLrel. 08, Created)
O1-NOV-1998 (TrEMBLrel. 08, Last sequence update)
O1-NOV-1998 (TrEMBLrel. 24, Last annotation update)
O1-JUN-2003 (TrEMBLrel. 24, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
STRAIN-subtype F;
MEDLINE=97225064; PubMed=9071437;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human immunodeficiency virus 1.
Viruses; Retroid viruses; Retroviridae; Lentivirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17 TRPNYNKRKRIHIGPGRAFYTT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Coat protein; Envelope protein; Glycoprotein; Transmembrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TRPNYNVRKRIHIGÞGRSFYTT
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22; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              162 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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ilarity 95.7%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18340 MW; 988FBC9829FD8FC6 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          53.1%;
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1; Mismatches
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Pred. No. 4
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Pred. No. 3.6e-08;
0; Mismatches 1
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                                                                                                                                                                                                                                                                                                                                      Lentivirus
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Q85837
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Best Local S
Matches 20
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Q85837, O1-NOV-1996 (TrEMBLrel 01, Created)
O1-NOV-1996 (TrEMBLrel 01, Last sequence update)
O1-JUN-2003 (TrEMBLrel 24, Last sanotation update)
O1-JUN-2003 (TremBlrel 24, Last sanotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 10
Q85831
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Best Local S
Matches 20
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PRELIMINARY;
QSS831,
O1-NOV-1996 (TrEMBLrel. 01, Created)
O1-NOV-1996 (TrEMBLrel. 01, Last sequence update)
Envelope glycoprotein, v3 region (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                       Human immunodeficiency virus 1.
Viruses; Retroid viruses; Retroviridae; Lentivirus
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GO; GO:0019028; C:Viral capsid; IEA.
GO; GO:0019031; C:Viral envelope; IEA.
GO; GO:0019031; C:Viral envelope; IEA.
InterPro; IPR000777; GP120.
Pfam; PF00516; GP120, 1.
ALDS; Coat protein; Envelope protein; Glycoprotein; Transmembrane.
NON TER
108
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108
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                                                                                                                                  14 MYATRENYNKRKRIHIGEGRAFYTT 38
                                                                                                                                 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; AF086997; AAC72226.1; -. HSSP; P05877; INIZ.
                                                                                                                                                                     20;
                                                                                                                                                                             Similarity
                                                                                                                17 TRPNYNKRKRIHIGPGRAFYTTK 39
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20; Conserv
                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                         51.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            108
12416 MW; A1E0413A5A97447A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  52.1%;
87.0%;
                                                                                                                                                        Score 110; DB 2;
Pred. No. 3.8e-08;
1; Mismatches 4
                                                                                                                                                                                              547895284E23E90C CRC64;
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Pred. No. 5e-08;
                                                                                                                       51
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                                                                                                                                                                         Length
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                                                                                                                                                   Gaps
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RESULT 12

ID Q70454

Q7045

AC Q7045

AC Q7045

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DT 01-NC

DT 01-NC

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   Query Match
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AIDS 8:901-909(1994).

EMBL; U00342; AAA57668.1; -.

HSSP; P20871; 1CE4.

GO; GO:0016021; C:integral to

GO; GO:0019028; C:viral capsid

GO; GO:0019031; C:viral envelo
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Q70454;
01-NOV-1996
01-NOV-1996
01-JUN-2003
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                                                                                                                                                            AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Furuta Y., Bergstrom T., Norkrans G., "HIV type 1 V3 sequence diversity in the time of sexual transmission.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro; IPR007110; Ig-like. Pfam; PF00516; GP120; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sabino E., Pan L.Z., Cheng-Mayer C., Mayer A. "Comparison of in vivo plasma and peripheral HIV-1 quasi-species to short-term tissue cult of tat and C2-V3 env regions.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE-95032920; PubMed=7946099;
Sabino E., Pan L.Z., Cheng-Mayer C
"Comparison of in vivo plasma and
                                                                                                 NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Viruses; Retroid viruses;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Envelope glycoprotein,
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GO; GO:0019028; C:viral capsid; IEA.
GO; GO:0019031; C:viral envelope; IEA.
GO; GO:0005198; F:structural molecule activity;
InterPro; IPR000777; GP120.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Viruses; Retroid
NCBI_TaxID=11676;
                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Submitted (JUN-1994)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mulder K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AIDS Res.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=95127302; PubMed=7826703;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=11676;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human immunodeficiency virus 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Name=env;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human immunodeficiency virus
Viruses; Retroid viruses; Ret
                                                                                                                                                                                                                      InterPro; IPR008985; ConA_1
InterPro; IPR000777; GP120.
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                                                                                                                                                                                                                                                                             mitted (JUN-1994) to the EMBL/GenBank/DDBJ da
BL; U10936; AAA66506.1; -.
PP, P20871; ICE4.
GO:0016021; C:integral to membrane; IEA.
GO:0019028; C:viral capsid; IEA.
GO:0019031; C:viral envelope; IEA.
GO:0019031; C:viral envelope; IEA.
                                                                                                                                                                                            PF00516; GP120;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Coat protein; Envelope protein;
                                                                                                                                                            Coat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       63 AA;
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(TrEMBLrel. 01, Last annotation update)
(TrEMBLrel. 24, Last annotation updat
(coprotein, v3 region (Fragment).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       63
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                                                                 8114
                                                                                                                                                        Envelope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     51.6%;
80.0%;
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                                                                                                                                                                                                                                                   _like_lec_gl.
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Pred. No. 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , Horal P.; contact-traced Swedish couples
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093001;
01-NOV-1998
01-NOV-1998
01-JUN-2003
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SEQUENCE
SEQUENCE FROM N.A.

MEDLINE-98334296; PubMed-9671221;

Betable M.C., Merzouki A., Arella M., Sadowsk

Estable M.C., Merzouki A., Arella M., Sadowsk

"Distinct clustering of HIV type 1 sequences

versus noninjection drug users in Vancouver,

AIDS Res. Hum. Retroviruses 14:917-919(1998).
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Q70457;
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01-JUN-2003 (TrEMBLrel.
Envelope glycoprotein (F
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01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Envelope glycoprotein, v3 region (Fragment).
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Pfam; PF00516; GP120; 1.
AIDS; Coat protein; Envelop
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                                                                                                                                                                             Human immunodeficiency virus 1.
Viruses; Retroid viruses; Retroviridae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (JUN-1994)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Furuta Y., Bergstrom T., Norkrans G., "HIV type 1 V3 sequence diversity in the time of sexual transmission.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A. MEDLINE=95127302; PubMed=7826703;
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                                                                                                                                                       NCBI_TaxID=11676;
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P20871; 1CE4.
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1. 08, Last
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Last sequence that the control of the cont
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Pred. No. 4.3e-08;
1; Mismatches 4
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1; Mismatches
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contact-traced
                                                                       Sadowski I.J.;
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A Zhang P.F., Chen X., Fu D.W., Margolick J.B., Quinnan G.V. Jr., and tradizing antibody response during early chronic human immunodeficiency virus type 1 infection.";
Individual formation of the broadening J. Virol. 73:525-5230(1999).

REMBL; AF130390; AAD32999.1; -.

REMBL; AF130390; AAD32299.1; -.

RESSP; P20871; ICE4.

GO; GO:0016021; C:integral to membrane; IEA.

GO; GO:0019028; C:viral capsid; IEA.

GO; GO:0019028; C:viral envelope; IEA.

DR GO; GO:0019031; C:viral envelope; IEA.

InterPro, IPR000777; GP120.

REM AIDS; Coat protein; Envelope protein; Glycoprotein; Transmembrane.

FI NON TER 136 136

SQ SEQUENCE 136 AA; 15370 MW; 3F47C47412E9C3A3 CRC64;
                                                                                                                                                                              Query Match

S1.4%; Score 109.5; DB 2; Length 136;

Best Local Similarity 65.8%; Pred. No. 1.1e.07;

Matches 25; Conservative 2; Mismatches 10; Indels 1
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C;Accession: PC2295
R;Shereta, K.; Soennerborg, A.; Steinbergs, J.; Saellberg, M.
Biochem. Biophys. Res. Commun. 205, 1658-1664, 1994
A;Title: Rapid grouping of HIV-1 infection in subtypes A to E by V3 pept.
A;Reference number: PC2291; MUID:95110306; PMID:7811250
A;Accession: PC2295

09-Jul-2004

peptide serotyping

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A; Molecule type: protein A; Residues: 1-35 <SHE> A; Cross-references: UNIPR C; Superfamily: type E ret

UNIPROT:Q8JA81; UNIPROT:Q8JA72; UNIPROT:Q8JA67; UNIPROT:Q8JA75; E retrovirus env polyprotein

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C;Species: human immunodeficiency virus type 1, HIV-1
C;Date: 1997 #sequence_revision 19-Mar-1997 #text_change 09-Jul-2004
R;O'Brien, W.A.; Koyanagi, Y.; Namazie, A.; Zhao, J.Q.; Diagne, A.; Idler, K.; Zack, J.A
A;Title: HIV-1 tropism for mononuclear phagocytes can be determined by regions of gp120
A;A;Cession: S13289
A,Accession: S13289
A,Accession: S1289
A,Status: preliminary
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A;Reference number: Z16673
A;Accession: T09448
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A;Note: Sequence extracted from NCBI
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                                                                                                                                                                                                                                                                47.9%;
                                                                                                                                                                                                                                                                                                                                                                                                       Akashi, T.; O'Brien, W.A.; Chen, I.S.; Koyanagi, Y.; Namazie, Library, July 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       47.9%;
                                                                                                                                                                                                                                          Score 102; DB 2; Pred. No. 6e-06; 0; Mismatches
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Pred. No. 7.
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0; Mismatches
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envelope protein - human immunodeficiency virus type 1 (fragment) (7.5pecies: human immunodeficiency virus type 1, HIV-1 (7.5pecies: human immunodeficiency virus type 1, HIV-1 (7.5pecies: horizone) #sequence_revision 06-Feb-1995 #text_change 0 R;Chiodi, F
    submitted to the EMBL Data
A;Reference number: S35800
A; Accession:
                                                                                                            RESULT 8
S35816
                                                                                                                                                                                                                                                                                                                                                                         C;Species: human immu
C;Date: 06-Feb-1995 #
C;Accession: S35815
R;Chiodi, F:
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                                                                                                                                                                                                                                                                                           A; Molecule type: DNA
A; Residues: 1-77 < CHI>
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A;Accession: S35815
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                              envelope protein - human immunodeficiency virus type 1 (fragment) (Species: human immunodeficiency virus type 1, HIV-1 C:Date: 06-Feb-1995 #sequence_revision 06-Feb-1995 #text_change 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 7
S35815
                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                Cross references: UNIPROT:077494; EMBL:223193; NID:g313535; PIDN:CAA80714.1; PID:g31355; Superfamily: type E retrovirus env polyprotein
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S35848
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Best Local
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A;Cross-references: UNIPROT:Q75760
C;Superfamily: type E retrovirus env polyprotein
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Best Local :
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19; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
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       Library, June 1993
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86.4%;
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86.4%; Pred. No. 6e-06;
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Pred. No. 6.
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C;Species: human immunodeficiency virus type 1 (fragment)
C;Species: human immunodeficiency virus type 1, HIV-1
C;Date: 21-Feb-1995 #sequence_revision 05-Apr-1995 #text_change 09-Jul-20
C;Accession: PC2296
R;Sherofa, K.; Soennerborg, A.; Steinbergs, J.; Saellberg, M.
Biochem. Biophys. Res. Commun. 205, 1658-1664, 1994
A;Title: Rapid grouping of HIV-1 infection in subtypes A to E by V3 peptid, A;Reference number: PC2291; MUID:95110306; PMID:7811250
A;Accession: PC2296
A;Molecular -----
               envelope protein - human immunodeficiency virus type 1 (fragment) ($Species: human immunodeficiency virus type 1, HIV-1 C;Date: 06-Feb-1995 #sequence_revision 06-Feb-1995 #text_change 0 C;Accession: $35869 R;Chiodi, F.
                                                                                                            RESULT 11
835869
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A;Molecule type: DNA
A;Molecule type: DNA
A;Rosiduse: 1-77 - CCHI>
A;Cross-references: UNIPROT:Q77495; EMBL:Z23194;
C;Superfamily: type E retrovirus env polyprotein
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submitted to the EMBL Data Library,
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A; Residues: 1-77 < CHI>
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A; Accession: Sisa49
A; Status: preliminary
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Best Local
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nilarity 81.8%;
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Pred. No.
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Pred. No. 6.8e-07;
 June 1993
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A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-77 <CHI>
A;Cross-references: UNII
C;Superfamily: type E re
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A;Accession: S35869
A;Atcession: S95869
A;Status: preliminary
A;Nolecule type: DNA
A;Residues: 1-71 - CCHI>
A;Cross-references: UNIPROT:Q77552; EMBL:Z23254; NID:g313650; PIDN:CAA80772.1; PID:g31365
C;Superfamily: type E retrovirus env polyprotein
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S35830
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C;Species: human immunodeficiency virus

C;Date: 06-Feb-1995 #sequence_revision 0

C;Accession: S35832; S35833

R;Chiodi, F.

submitted to the EMBL Data Library, June
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S35832
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A; Residues: 1-77 < CHI>
A; Cross-references: UN
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Matches 18
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Best Local S
Matches 18
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                                                              Conservative
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mmunodeficiency virus type 1, HIV-1
s #sequence_revision 06-Feb-1995 #text_change (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BL Data
S35800
                                                                                                                                         UNIPROT: Q77512; EMBL: Z23212; NID: g313569;
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                                                                                                                            retrovirus
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81.8%;
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Pred. No.
                                                                            Score 97;
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                                                                                                                             env
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         June 1993
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06-Feb-1995
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envelope protein - human immunodeficiency virus type 1 (fragment) c;Species: human immunodeficiency virus type 1, HIV-1 C;Date: 06-Feb-1995 #sequence_revision 06-Feb-1995 #text_change 0 C;Accession: S35868; S35870

#text_change 09-Jul-2004

RESULT S35868

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envelope protein (V3 domain) - human immunodeficiency virus type 1 (fragment)
C;Species: human immunodeficiency virus type 1, HIV-1
C;Accession: B46410
R;McNearney, T; Hornickova, Z; Markham, R; Birdwell, A.; Arens, M.; Saah, A.; Ratner, A;Title: Relationship of human immunodeficiency virus type 1 sequence heterogeneity to g
A;Reference number: A46410; MUID:93066216; PMID:1438212
A;Resion: B46410
A;Status: preliminary; not compared with conceptual translation
A;Residues: 1-110 «MCID»
A;Cross-references: UNIPROT:Q9P905
A;Note: sequence extracted from NCBI backbone (NCBIP:117726)
C;Superfamily: type E retrovirus env polyprotein
Search completed: February 24, 2005, 07:28:00 Job time : 17 secs
                                                                                                            В
                                                                                                                                              8
                                                                                                                                                        Query Match
45.5%; Score 97; DB 2; Length 110;
Best Local Similarity 81.8%; Pred. No. 3.5e-06;
Matches 18; Conservative 1; Mismatches 3; Indels
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A.Molecule type: DNA
A.Molecule type: CHIS
A/Cross-references: UNIPROT:Q77553; UNIPROT:Q77551; EMBL:Z23253; NID:g313648; PIDN:CAA8Q
C/Superfamily: type E retrovirus env polyprotein
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submitted to the EMBL Data Library, June 1993
A;Reference number: S35800
A;Accession: S35868
A;Accession: S3586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
45.5%; Score 97; DB 2; Length 77;
Best Local Similarity 81.8%; Pred. No. 2.4e-06;
Matches 18; Conservative 0; Mismatches 4; Indels
                                                                                   17 TRPNYNKRKRIHIGPGRAFYTT 38
|||| || || |||||| 38 TRPNNMTRKSIHIGPGRAWYTT 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27 TRPNNNTRKSIHIGPGRAFYAT 48
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                              213
202.5
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seq length: 2000000000
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1: /cgn2=6/ptodata/2/pubpaa/US07 PUBCOMB.pep:*

2: /cgn2-6/ptodata/2/pubpaa/US06 NEW PUB.pep:*

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6: /cgn2-6/ptodata/2/pubpaa/US07 NEW PUB.pep:*

7: /cgn2-6/ptodata/2/pubpaa/US08 NEW PUB.pep:*

9: /cgn2-6/ptodata/2/pubpaa/US08 PUBCOMB.pep:*

9: /cgn2-6/ptodata/2/pubpaa/US08 PUBCOMB.pep:*

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Copyright (c) 1993 - 2005 Compugen Ltd.
         BB
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  0 US-09-956-940-17
6 US-10-416-262B-1
9 US-09-956-940-19
0 US-09-775-805-98
6 US-10-753-339-98
0 US-09-956-940-16
0 US-09-956-940-18
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Sequence 95, Appl
Sequence 2, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 19, Appl
Sequence 98, Appl
Sequence 98, Appl
Sequence 16, Appli
Sequence 18, Appli
Sequence 18, Appli
Sequence 18, Appli
Sequence 1, Appli
Sequence 1, Appli
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RESULT 2 US-10-416-262B Sequence 2, Publication GENERAL INFO APPLICANT: APPLICANT:	al tc	TY TREE THE TY	115 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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ion US/10 040156820 Cyanamid Michael	100 100 ative SKAMY SKAMY	L 0. 10 1 10 11 10 11 10 11	
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16262B .1 Company	Pred. No. 4.7e-23; 0; Mismatches 0; NYNKRKRIHIGPGRAFYTTK	ALIGNMENTS 75805 75805 NODEFICIENCY VIRUS /09/775,805 97,497 97,497 97,497 Score 213; DB 9	US-10-431-596-1 US-10-289-228-3 US-10-373-592-3 US-10-416-2628-4 US-10-289-228-28 US-10-373-592-8 US-10-373-592-8 US-10-373-592-70 US-10-373-592-70 US-10-373-592-25 US-10-289-228-2 US-10-289-228-2 US-10-373-592-2 US-10-373-592-2 US-10-373-592-2 US-10-373-592-2 US-10-373-592-2 US-10-373-592-2 US-10-373-592-2 US-10-373-592-3 US-10-373-592-3 US-10-373-592-4 US-10-373-592-4 US-10-373-592-8
	8 3	399.	Sequence 1, 1 Sequence 3, 1 Sequence 3, 1 Sequence 2, 2 Sequence 51, Sequence 51, Sequence 70, Sequence 25, Sequence 25, Sequence 24, Sequence 2, Sequence 2, Sequence 2, Sequence 2, Sequence 2, Sequence 2, Sequence 2, Sequence 2, Sequence 2, Sequence 2, Sequence 2, Sequence 3, Sequence 4, Sequence 5, Sequence 5, Sequence 5, Sequence 5, Sequence 6, Sequ
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NAME: WILLOW:
REGISTRATION WIMBER: 32,955
FELECOMMUNICATION NUMBER: 32,955
TELEPHONE: (703) 816-4000
FELEY : 200797 NIXN UR
SEQUENCE CHARACTERISTICS:
LENGTH: 40 amino acids
TYPE: amino acids
FORDATOR FOR SEQUENCE SEQUENCE SEGUENCE SEGUENCE SEGUENCE SEGUENCE SEGUENCE SEGUENCE STRANDEDRESS: single
MOLECULE TYPE: procein
MOLECULE TYPE: procein
US-09-956-940-17 DESCRIPTION: SEQ ID NO: 17:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: FLORDW:

COMPUTER: IBM PC COMPALIBLE

COMPUTER: IBM PC COMPALIBLE

SOFWARTING SYSTEM: PC COMPALIBLE

CURRENT APPLICATION DATA:

FILING DATE: 10-CC-2001

APPLICATION NUMBER: US/09/956,940

APPLICATION NUMBER: US/08/460,673

APPLICATION NUMBER: US 08/015,987

FILING DATE: 10-FEB-193

FILING DATE: 10-FEB-193

APPLICATION NUMBER: US 07/033,429

FILING DATE: 01-FEB-193

APPLICATION NUMBER: US 07/591,109

FILING DATE: 01-CT-1990

APPLICATION NUMBER: US 07/591,109

APPLICATION NUMBER: US 07/093,854

APPLICATION NUMBER: US 07/093,854

APPLICATION NUMBER: US 07/093,854
ch
1 Similarity 95.1%; Score 202.5; DB 10; Length 40,
39; Conservative 0, Mismatches 0, Indels 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; SEQ ID NO 1
; LENGTH: 40
; TYPE: PRT
; ORGANISM: HIV
US-09-389-284-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 KOIINMWOEVGKAMYACTRPNYNKKKRIHIGPGKAFYTTK 40
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tive 0; Mismatches 0; Indels 1
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Gaps

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; LENGTH: 40
; CREATURE; PRT
; ORGANISM: Human immunodeficiency virus
; FEATURE:
; NAME/KEY: MISC_FEATURE
; OTHER INFORMATION: Fragment of HIV
US-10-416-262B-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-956-940-19
Sequence 19, Application US/09956940
Publication No. US20030022826A1
GENERAL INFORMATION:
APPLICANT: HAYNES, BARTON F.
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FILE REFERENCE: AN100449
CURRENT APPLICATION NUMBER: US/10/416,262B
CURRENT FILING DATE: 2003-05-08
PRIOR APPLICATION NUMBER: PCT/US01/46943
PRIOR PILING DATE: 2001-10-08
NUMBER OF SEQ ID NOS: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: American Cyanamid Company
APPLICANT: Hagan, Michael
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                              CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/956,940
FILING DATE: 12-Oct-2001
CLASSIFICATION: -Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                          COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.
                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE P.C.
STREET: 1100 NORTH GLEBE ROAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: USE OF SYNTHETIC PEPTIDES TO INDUCE TOLERANCE TO PATHOGENIC T AND B CELL AUTOANTIGENS OR INFECTIOUS AGENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               39;
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                                                                                                                                                                                                                                                                                                                                                                 CITY: ARLINGTON
STATE: VIRGINIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KQIINMWQEVGKAMYA-TRPNYNKRKRIHIGPGRAFYTTK 39
                APPLICATION NUMBER: US/08/460,673
FILING DATE: <Unknown>
APPLICATION NUMBER: US 08/015,987
FILING DATE: 10-FEB-1993
APPLICATION NUMBER: US 07/833,429
FILING DATE: 10-FEB-1992
                                                                                                                                                                                                                                                                                                                                               COUNTRY: U.S.A.
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APPLICATION NUMBER: US 07/591,109
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ilarity 97.5%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
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                                                                                                                                                                                                                            RESULT 9
US-10-753-339-98
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US-09-775-805-98
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 98
LENGTH: 39
TYPE: PRT
ORGANISM: Human immunodeficiency virus
                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: 200797 NIXN UR INFORMATION FOR SEQ ID NO: 19:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 01-OCT-1990
APPLICATION NUMBER: US 07/093,854
FILING DATE: 08-SEP-1987
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                     32;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 52 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                       82.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          95.1%;
97.5%;
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Sequence 98, Application US/10753339

Publication No. US20040197344A1

GENERAL INFORMATION:
APPLICANT: DUKE UNIVERSITY

TITLE OF INVENTION: HUMAN IMMUNODEFICIENCY VIRUS VACCINE
FILE REFERENCE: 1579-880

CURRENT APPLICATION NUMBER: US/10/753,339

CURRENT PILING DATE: 2004-01-09

PRIOR APPLICATION NUMBER: 09/775,805

PRIOR APPLICATION NUMBER: 09/497,497

PRIOR FILING DATE: 2001-02-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 98, Application US/09775805
Publication No. US20010036461A1
GENERAL INFORMATION:
APPLICANT: DUKE UNIVERSITY
TITLE OF INVENTION: HUMAN IMMUNODEFICIENCY VIRUS VACCINE
FILE REFERENCE: 1579-548
CURRENT APPLICATION NUMBER: US/09/775,805
CURRENT FILING DATE: 2001-02-05
PRIOR APPLICATION NUMBER: 09/497,497
PRIOR APPLICATION NUMBER: 09/497,497
PRIOR APPLICATION NUMBER: 09/497,497
PRIOR FILING DATE: 2000-02-04
NUMBER OF SEQ ID NOS: 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: WILSON, MARY J.
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 1579
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEPAX: (703) 816-4100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 KQIINMWQEVGKAMYA-TRPNYNKRKRIHIGPGRAFYTTK 39
                                                                                                                                                                                                                                                                                                                                                                                                                              KQIINMWQEVGKAMYATRPNYNKRKRIHIGPGRAFYTT
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                                                                                                                                                                                                                                                                                                                                                                                                  KQIINMWQEVGKAMYATRPHNNTRKSIHMGPGKAFYTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 176; DB 9;
Pred. No. 9.5e-18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 202.5; DB 1
Pred. No. 2.1e-21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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US-09-956-940-16
                  Query Match
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US-09-956-940-16
; Sequence 16, Application US/09956940
; Publication No. US20030022826A1
; GENERAL INFORMATION;
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                                                                                                                                                               TELEX: 200797 NIXN UR
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
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Best Local (
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SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/08/460,673
FILING DATE: CURKNOWN
APPLICATION NUMBER: US 08/015,987
FILING DATE: 10-FEB-1993
APPLICATION NUMBER: US 07/833,429
FILING DATE: 10-FEB-1997
APPLICATION NUMBER: US 07/591,109
FILING DATE: 01-CCT-1990
APPLICATION NUMBER: US 07/093,854
FILING DATE: 08-SEP-1987
ATTORNEY/AGENT INFORMATION:
NUMBER: US 07/093,854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 39
TYPE: PRT
                                                    LENGTH: 35 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION: TELEPHONE: (703) 816-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/956,940
FILING DATE: 12-Oct-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPETEN: IBM PC compatible

OPERATING SYSTEM: PC-10-6-41 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSE: NIXON & VANDERHYE P.C.
STREET: 1100 NORTH GLEBE ROAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: HAYNES, BARTON F.
APPLICANT: HAYNES, BARTON F.
TITLE OF INVENTION: USE OF SYNTHETIC PEPTIDES TO INDUCE
TOLERANCE TO PATHOGENIC T AND B CELI
AUTOANTIGENS OR INFECTIOUS AGENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                 TELEPHONE: (703) 616-4100 UR
                                                                                                                                                                                                                                                          NAME: WILSON, MARY J.
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 1579-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 KQIINMMQEVGKAMYATRPNYNKRKRIHIGPGRAFYTT 38
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32; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: ARLINGTON
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         81.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     82.6%;
       Score 174.5;
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; Pred. No. 9.5e-18; 
3; Mismatches 3;
   DB 10;
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Length
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US-09-956-940-18
Sequence 18, Application US/09956940
Publication No. US2003022826A1
GENERAL INFORMATION:
APPLICANT: HAYNES, BARTON F.
TITLE OF INVENTION: USE OF SYNTHETIC PEPTIDES TO INDUCE
TOLERANCE TO PACHOGENIC T AND B CELL EPITOPES OF
AUTOANTIGENS OR INFECTIOUS AGENTS
                                                                                                                                                                                                                                                    US-09-956-940-18
                                                                                                                                                                                                                                                                                                                                                                                           COUNTEX: U.S.A.

ZIP: 22201-474
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPAILDIE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Versic
APPLICATION NUMBER: US/09/956,940
FILING DATE: 12-OCT-2001
CLASSIFICATION NUMBER: US/08/460,673
APPLICATION NUMBER: US 08/015,987
FILING DATE: 10-FEB-1993
APPLICATION NUMBER: US 07/833,429
APPLICATION NUMBER: US 07/833,429
FILING DATE: 10-FEB-1993
APPLICATION NUMBER: US 07/591,109
APPLICATION NUMBER: US 07/591,109
APPLICATION NUMBER: US 07/591,109
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APPLICATION NUMBER: US 07/591,109
APPLICATION NUMBER:
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Best Local S
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                                                                                                                                                                                                                                                             TOPOLOGY: linear MOLECULE TYPE: protein SEQUENCE DESCRIPTION: SEQ ID NO: 18:
13 KÓTÍNMWÓEVGKAMYACTRÞNYNKRKRIHIGÞGRA 47
                                     1 KQIINMWQEVGKAMYA-TRENYNKRKRIHIGFGRA 34
                                                                                                                                   1 Similarity
34; Conserv
                                                                                                                                                                                                                                                                                                                                                  LENGTH: 47 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KQIINMWQEVGKAMYA-TRPNYNKRKRIHIGPGRA 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: ARLINGTON
STATE: VIRGINIA
                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KQIINMWQEVGKAMYACTRPNYNKRKRIHIGPGRA 35
                                                                                                                                                   81.9%;
97.1%;
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                                                                                                                          0,
                                                                                                          Score 174.5; DB 10
Pred. No. 1.9e-17;
0; Mismatches 0;
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                                                                                                                                                                      DB 10;
                                                                                                             Indels
                                                                                                                                                                  Length 47;
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                                                                                                       Gaps
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RESULT 12

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CURRENT APPLICATION NUMBER: US/10/373,592
CURRENT FILING DATE: 2003-02-26
PRIOR APPLICATION NUMBER: 10/289,228
PRIOR FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: 60/331,036
PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 120
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1
LENGTH: 39
LENGTH: 39
TYPE: PRT
                                                           RESULT 14
US-10-431-596-1
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Publication No. US20040001851A1
GENERAL INFORMATION:
APPLICANT: HAYNES, BARTON F.
APPLICANT: KORBER, BETTE T.
APPLICANT: DE LORIMIER, ROBERT M.
TITLE OF INVENTION: POLYVALENT IMMUNOGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: HAYNES, BARTON F.
APPLICANT: KORBER, BETTE T.
APPLICANT: DE LORIMIER, ROBERT M.
TITLE OF INVENTION: POLYVALENT IMMUNOGEN
FILE REFERENCE: 1579-759
Sequence 1, Application US/10431596 Publication No. US20040086506A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PATENTIN VET. 2.1
SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1, Application US/10289228
Publication No. US20030147888A1
                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 31; Conserv
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OTHER INFORMATION: Description of Artificial Sequence:Human Immunodeficiency Virus
-10-289-228-1
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CURRENT FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: 60/331,036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: 1579-785
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TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: peptide
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79.5%;
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                                                                                                                                                                                                                                                 Score 170; DB 15;
Pred. No. 6.9e-17;
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Mismatches
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APPLICANT: HAYNES, BARTON F.
APPLICANT: KORBER, BETTE T.
APPLICANT: KORBER, BETTE T.
APPLICANT: BE LORIMIER, ROBBERT M.
APPLICANT: DE LORIMIER, TOBBERT M.
TITLE OF INVENTION: POLYVALENT IMMUNOGEN
FILE REFERENCE: 1579-759
CURRENT APPLICATION NUMBER: US/10/289,228
CURRENT FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: 60/331,036
PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 65
SOCTWARE: PATENTIN VET: 2.1
SEQ ID NO 3
LENGTH: 39
LENGTH: 39
TYPE: PRT
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US-10-289-228-3
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CURRENT FILING DATE: 2003-05-08
PRIOR APPLICATION NUMBER: 10/373,592
PRIOR FILING DATE: 2003-02-26
PRIOR APPLICATION NUMBER: 10/289,228
PRIOR APPLICATION NUMBER: 10/289,228
PRIOR APPLICATION NUMBER: 10/289,328
PRIOR FILING DATE: 2002-11-07
PRIOR PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 84
                                                                           Query Match
Best Local S
Matches 31
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Best Local Similarity
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APPLICANT:
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APPLICANT: KORBER, BETTE
APPLICANT: DE LORIMIER, I
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                                                                                                                                                                                                 ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                              OTHER INFORMATION: Description of Artificial Sequence: Human Immunodeficiency Virus
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KOIINMWQEVGKAMYATRPNNNTRERLSIGPGRAFYARR
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 Mismatches

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                                                                                                Score 169; DB 14; Length 39; Pred. No. 9.5e-17;
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Pred. No. 6.9e-17;
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Search completed: February 24, 2005, Job time : 132 secs

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